R32 Refrigerant – Klea® 32

R32 refrigerant is of interest as both a blend component for alternatives to R-22 and R-502 such as Klea® 407A and Klea® 410A, and as an attractive low GWP candidate for air conditioning. It can be blended with HFOs to improve performance.

Please note that not all products are available in all markets.

R32 Refrigerant Physical Properties – Klea® 32

Property	S.I. Units	Value	British Units	Value
Molecular Weight	kg/kmol	52.02	lbm/lbmol	52.02
Critical Temperature	°C	78.11	°F	172.59
Critical Pressure	bara	57.82	psia	838.61
Critical Density	kg/m^3	424.00	lb/ft^3	26.47
Normal Boiling Point	°C	-51.651	°F	-60.972
Latent Heat of Vapourisation at Atmospheric Pressure	kJ/kg	381.86	BTU_{IT}/lb	164.17
Saturated Vapour Density at Atmospheric Pressure	kg/m^3	2.9879	lb/ft^3	0.19
Liquid Vapour Pressure @25°C	bara	16.896	psia	245.06
Coefficient of Volumetric Thermal Expansion for Saturated Liquid at 25°C	$°C^{-1}$	0.00465	$°F^{-1}$	0.00258
Speed of Sound* for Saturated Vapour at 25°C	m/s	203.72	ft/s	668.37
Adiabatic Exponent* for Saturated Vapour at 25°C		1.68		1.68
Latent Heat of Vapourisation at 25°C	kJ/kg	270.910	BTU_{IT}/lb	116.47
Saturated Vapour Density at 25°C	kg/m^3	47.339	lb/ft^3	2.955
Saturated Vapour Density at 0°C	kg/m^3	22.091	lb/ft^3	1.379